ELSEVIER

www.elsevier.nl/locate/jorganchem

Journal of Organometallic Chemistry 601 (2000) 347–348

Journal of Organometallic Chemistry

Author Index of Volume 601

Adams, R.D., 43
Adatia, T., 271
Alcón, M.J., 284
Allen, D.W., 293
Alvarez-Carena, A., 126
Anderson, C., 22
Andrieu, J., 43
Antonello, S., 201
Arancibia, A., 126
Arancibia, V., 126
Asahara, M., 246
Asaro, F., 114

Back, S., 93, 226
Barranco, E., 34
Basato, M., 201
Bennett, M.A., 299
Bhukta, G., 16
Bikrani, M., 311
Black, C., 305
Boga, C., 233
Brand, H., 126
Brandsma, L., 341
Braunstein, P., 43
Brunner, H., 211

Caiazzo, A., 320
Calhorda, M.J., 34
Canovese, L., 1
Cave, G.W.V., 305
Ceccon, A., 267
Chan, H.-S., 160
Chaudhari, R.V., 100
Chávez, I., 126
Cheng, C.-H., 253
Chen, J., 57
Chessa, G., 1
Clark, A.M., 299
Conole, G., 271
Contel, M., 299
Crespo, M., 22
Cross, W.I., 164

Damodaran, K., 100
de Lima, G.M., 142
Del Vecchio, E., 233
Dolmella, A., 1
Dong, T.-Y., 253
Dreos, R., 114
Drew, M.G.B., 34

Egorov, M.P., 324
Eichele, K., 220
El Mail, R., 311
Erabi, T., 246

Fawzi, R., 220
Félix, V., 34
Ferrand, V., 78
Flower, K.R., 164
Font-Bardía, M., 22
Forlani, L., 233
Frosch, W., 226

Ganis, P., 267
Garralda, M.A., 311

Hagu, H., 341
Harris, P.W.R., 172
Herrmann, W.A., 138
Hiraki, K., 69
Hitchcock, P.B., 142, 335
Holt, H.L., Jr., 147
Ho, P.-H., 253

Ibarlucea, L., 311
Iglesias, M., 284
Incarvito, C.D., 191
Ivanov, Y.V., 324

Jayasree, S., 100
Jia, C.-S., 108
Jia, G., 330
Jouet, R.J., 191

Kaczorek, M., 133
Kawachi, A., 259
Kawano, H., 69
Kayamori, T., 324
Kazankov, G.M., 51
King, J.D., 271
Klankermayer, J., 211
Klein, A., 22
Köhler, K., 226
Kurihara, H., 246
Kuz'mina, L.G., 51

Lang, H., 93, 226
Lappert, M.F., 142
Lawless, G.A., 142
Lazzaroni, R., 320
Le Bozec, H., 78
Lee, H.M., 330
Leshina, T.V., 324
Lindner, E., 220
Lu, G.-L., 237
Lydon, D.P., 305

Mäeorg, U., 341
Mak, T.C.W., 160
Maniukiewicz, W., 126
Manivannan, R., 16
Manoli, F., 267
Manuel Manríquez, J., 126
Maran, F., 201
Masaki, Y., 69
Matsunaga, T., 69
Mays, M.J., 271
Miao, S.-B., 87
Mifflin, J.P., 293
Mochida, K., 324
Mo, C.-Y., 271
Molins, E., 126

Nardin, G., 114
Natsume, S., 246
Naud, F., 43
Nefedov, O.M., 324
Nixon, J.F., 335

Onishi, M., 69

Pakuła, K., 133
Panyashkina, I.M., 51
Pellizer, G., 114
Peressini, S., 114
Péron, V., 78
Pierssens, L.J.-M., 142
Pinhas, A.R., 147
Pinilla, E., 311
Pinto, P., 34
Plyusnin, V.F., 324
Polyakov, V.A., 51
Pontorno, L., 320
Porhiel, E., 78
Pritchard, R.G., 164

Raithby, P.R., 271
Rampf, F.A., 138
Randaccio, L., 114
Rennie, M.A., 271
Rheingold, A.L., 191
Rheinwald, G., 93
Rickard, C.E.F., 172, 299
Roig, A., 126
Roper, W.R., 299
Rourke, J.P., 305
Russo, T., 147
Ryabov, A.D., 51

Saccomando, D.J., 305
Sakarya, N., 335
Sánchez, F., 284
Seayad, A., 100
Sesto, B., 201
Settambolo, R., 320
Shvo, Y., 153
Siega, P., 114
Skabara, P.J., 293
Solan, G.A., 271
Solans, X., 22

PII: S0022-328X(00)00165-0

Somech, I., 153
Starowieyski, K.B., 133
Sun, C., 237
Sundararajan, G., 16

Tamao, K., 259
Tam, K.-H., 237
Taraban, M.B., 324
Tauzher, G., 114
Tavagnacco, C., 114
Todesco, P.E., 233
Toniolo, L., 100
Torres, M.R., 311
Tsang, K.-Y., 237
Tsubomura, T., 69

Uguagliati, P., 1
Ulrich, K., 78

Valle, G., 201
Venzo, A., 267
Verkruijsse, H.D., 341
Viani, I., 284
Viirlaid, S., 341
Visentin, F., 1
Volkova, O.S., 324

Wada, M., 246
Wald, J., 220
Wang, Y., 253
Wang, Z.-X., 87, 108
Wells, R.L., 191
Wong, W.-Y., 237
Woodgate, P.D., 172
Woo, L.K., 57
Wright, L.J., 299

Xie, Z., 160

Yamaguchi, T., 246
Yang, C., 330
Yang, Q., 160

Zabel, M., 211
Zecca, M., 201
Zhou, X.-G., 87, 108
Zhou, Z.-Y., 87, 108

ELSEVIER

www.elsevier.nl/locate/jorganchem

Journal of Organometallic Chemistry 601 (2000) 349–355

Journal of Organometallic Chemistry

Subject Index of Volume 601

Acetate
Zur Umsetzung von Bis(alkinyl)-Titanocenen mit Übergangsmetall-Verbindungen von Cu(II), Pd(II), Pt(II), Fe(III) und Au(III), 226

Acetylacetonate
Zur Umsetzung von Bis(alkinyl)-Titanocenen mit Übergangsmetall-Verbindungen von Cu(II), Pd(II), Pt(II), Fe(III) und Au(III), 226

Alkali
Anionic dichlorolanthanocene compounds. X-ray crystal structures of $[\{(Me_3Si)_2C_5H_3\}_2LnCl_2][Li(THF)_4]$ (Ln = Er, Yb) and $\{(Me_3Si)_2C_5H_3\}_2Yb(\mu\text{-}Cl)_2Li(THF)_2$, 160

Alkenes
On the in situ trimethylsilylation of zinc acetylides, 341

Alkenylcarbene
Functionalised alkenylcarbene metal complexes (M = Ru, W, Cr) by activation of propargyl alcohol derivatives, 78

Alkyne
Regiospecificity in reactions of alkynes and phosphines with the phosphido-bridged iron–cobalt complex $[(OC)_4Fe(\mu\text{-}PPh_2)Co(CO)_3]$, 271
Zur Umsetzung von Bis(alkinyl)-Titanocenen mit Übergangsmetall-Verbindungen von Cu(II), Pd(II), Pt(II), Fe(III) und Au(III), 226

Alkynols
Functionalised alkenylcarbene metal complexes (M = Ru, W, Cr) by activation of propargyl alcohol derivatives, 78

Allyl complexes
From molecules to aggregates: crystal structures of molybdenum binuclear complexes, 34

1-Allylpyrrole
Rhodium-catalyzed hydroformylation of 1-allylpyrrole as an unexpected way to 5,6-dihydroindolizine synthesis, 320

Amino acids
Chiral cyclopalladated liquid crystals from amino acids, 305

Anthracene
Synthesis, structures and luminescent properties of metal complexes containing 4-[2-(9-anthryl)vinyl]pyridine, 237

Aromatic heterocycles
Tetrahalogenomethanes: simple reagents for the synthesis of monohalogenated and mixed dihalogenated aromatic heterocycles via metal–halogen exchange from lithium compounds, 233

Aromatic ketones
Functionalisation of tetraalkylsilanes derived from C–H activation; towards annulations of diterpenoids, 172

Aryl iodides
Reactivity of $[Pd_3(\mu\text{-}OAc)_3(\mu,\eta^2\text{-}MeSCHCO_2Et\text{-}C,S)_3]$ in the presence of triphenylphosphine: a model of the early steps of the Pd/PR_3-catalysed Heck reaction, 201

Asymmetric catalysis
Asymmetric catalytic hydroformylation of styrene: stereoselective ferrocenylethyldiphosphine rhodium catalysts, 138

Asymmetric hydrogenation
Rh and Ir complexes containing multidentate, C_2-symmetry ligands. Structural and catalytic properties in asymmetric hydrogenation, 284

Asymmetric reaction
Complexes *cis*-$[PdCl_2(OSMeR)_2]$ (R = Me, Ph, and C_6H_4Me-4) in attempted asymmetric cyclometalation of dimethylaminomethylferrocene, 51

Azobenzene
Synthesis and characterisation of cyclometallated orthoazobenzene complexes of Ru(II): crystal and molecular structure of $[Ru\text{-}Cl(CO)(\eta^2\text{-}C,N\text{-}C_6H_4N{=}NPh)(PPh_3)_2]\cdot 0.5CHCl_3\cdot 0.5Et_2O$. Is there a similarity to the hydroxyazo/ketohydrazone tautomerisation in *ortho*-hydroxyazobenzenes?, 164

Benzylferrocenes
Oxidation potential of benzylferrocenes and related compounds: effects of the *ortho*-methoxy substituent in the phenyl group, 246

Binuclear complexes
From molecules to aggregates: crystal structures of molybdenum binuclear complexes, 34

Bis-lactones
Synthesis of γ-lactones and unsaturated bis γ-lactones via Cu–Fe-mediated reductive cyclization of di- and tri-α-halogenated carboxylic esters, 153

Bis(trimethylsilyl)amide
Synthesis and structural characterisation of bis(trimethylsilyl)amidotin(II) triflate $[\{Sn(NR_2)(\mu\text{-}\eta^2\text{-}\overline{OTf})_2\}]_\infty$ (R = $SiMe_3$, $^-OTf = {}^-OSO_2CF_3$), 142

Bromination/desilylation
Functionalisation of tetraalkylsilanes derived from C–H activation; towards annulations of diterpenoids, 172

γ-Butyrolactones
Synthesis of γ-lactones and unsaturated bis γ-lactones via Cu–Fe-mediated reductive cyclization of di- and tri-α-halogenated carboxylic esters, 153

Cadmium
Synthesis, structures and luminescent properties of metal complexes containing 4-[2-(9-anthryl)vinyl]pyridine, 237

Carbonylation
On the mechanism of hydroesterification of styrene using an in situ-formed cationic palladium complex, 100

Catalysis
Rhodium-catalyzed hydroformylation of 1-allylpyrrole as an unexpected way to 5,6-dihydroindolizine synthesis, 320
Syntheses of monomeric iron and manganese complexes using bulky tripodal ligands: catalytic alkene epoxidations, 57

Catalytic cycle
On the mechanism of hydroesterification of styrene using an in situ-formed cationic palladium complex, 100

Catalytic hydrogenation
Preparation and catalytic hydrogenation properties of some rhodium and ruthenium complexes with chiral tridentate phosphine ligands (S,S)-$PhP(CH_2CHMeCH_2PPh_2)_2$ and (S)-$Ph_2PCH_2CH(PPh_2)CH_2CH_2PPh_2$), 330

PII: S0022-328X(00)00166-2

Catalytic intermediate
Synthesis and molecular structure of [RuCl{C(=CHPh)-OC(=O)CH_2CH_2}(CO)$(PPh_3)_2$]: a real intermediate in ruthenium complex-catalyzed selective synthesis of a (*Z*)-enol ester, 69
Cationic palladium complexes
Cationic palladium complexes with ketophosphine and phosphino enolate ligands and their reactivity towards C–C coupling reactions. Crystal structures of [PdMe{Ph_2PCH_2C(O)-Ph}(PCy_3)](PF_6) and [Pd{Ph_2PCH···C(···O)Ph}$(SMe_2)_2$]-(PF_6), 43
CCl_4
Studies on the nature of active species in $W(CO)_6/CCl_4/h\nu$ system as applied to metathesis polymerisation reactions, 16
Chirality
Optically active transition-metal complexes: Part 124. Chiral 1-phospha[1]ferrocenophanes and 1,12-diphospha[1.1]-ferrocenophanes — synthesis, characterization and ring-opening polymerization, 211
Chiral tridentate phosphines
Preparation and catalytic hydrogenation properties of some rhodium and ruthenium complexes with chiral tridentate phosphine ligands (*S,S*)-PhP$(CH_2CHMeCH_2PPh_2)_2$ and (*S*)-$Ph_2PCH_2CH(PPh_2)CH_2CH_2PPh_2$), 330
α-Chloro esters
Synthesis of γ-lactones and unsaturated bis γ-lactones via Cu–Fe-mediated reductive cyclization of di- and tri-α-halogenated carboxylic esters, 153
Chromium
Functionalised alkenylcarbene metal complexes (M = Ru, W, Cr) by activation of propargyl alcohol derivatives, 78
CIDNP
Photolysis of 7,8-digermabicyclo[2.2.2]octadiene. The investigation of the elementary stages by means of ^{1}H CIDNP and laser pulse photolysis, 324
Cluster
Reactions of [(μ-RS)(μ-S){$Fe_2(CO)_6$}$_2$(μ$_4$-S)]$^-$ with acid chlorides and diacid chlorides. Crystal structure of (μ-$PhCH_2S$)[μ-CH_2=C(Me)COS][$Fe_2(CO)_6$]$_2$(μ$_4$-S), 108
Cobalt
Ligating similarities between the novel five-electron-donor η^4-$P_3C_2Bu^t_2$(R)H ring system, (R = $CH(SiMe_3)_2$) and the η^5-cyclopentadienyl ring. Syntheses, crystal and molecular structures of [$Co_2(CO)_5$(μ-$P_3C_2Bu^t_2CH(SiMe_3)_2$)] and [$Co(CO)_2$(η^4-$P_3C_2Bu^t_2$H$(CH(SiMe_3)_2$], 335
Regiospecificity in reactions of alkynes and phosphines with the phosphido-bridged iron–cobalt complex [$(OC)_4$Fe(μ-PPh_2)Co$(CO)_3$], 271
CO insertion
Cyclometallated complexes of ruthenium and osmium containing the *o*-$C_6H_4PPh_2$ ligand, 299
Complex
Reaction of [Et_3NH][(μ-RE)(μ-CO)$Fe_2(CO)_6$] (E = S, Se) with azides. Synthesis of (μ-RE)(μ-p-$R^1C_6H_4N_3H$)$Fe_2(CO)_6$ and crystal structure of (μ-Bu^tS)(μ-PhN_3H)$Fe_2(CO)_6$, 87
Conformational equilibria
para-Substituted diphenylborylated organocobaloximes: effects of substituents on conformation and redox properties, 114
Copper(I)
Synthesis, electrochemistry and electronic spectra of tetranuclear bis(η^2-alkynyl) transition-metal complexes. The molecular structure of [(η^5-$C_5H_4SiMe_3$)$_2$Ti(C≡CFc)$_2$]CuBr, 93
Crystallography
Synthesis and structural characterisation of bis(trimethylsilyl)-amidotin(II) triflate [{Sn(NR_2)(μ-η^2-OTf)$_2$}]$_2$ (R = $SiMe_3$, $^-$OTf = $^-OSO_2CF_3$), 142
Crystal structure
Cyclometallated platinum complexes with thienyl imines. X-ray crystal structure of [PtMe{3-$(PhCH_2NCH)C_4H_2S$}PPh_3], 22
Synthesis and characterisation of cyclometallated orthoazobenzene complexes of Ru(II): crystal and molecular structure of [RuCl(CO)(η^2-*C,N*-C_6H_4N=NPh)$(PPh_3)_2$]·0.5$CHCl_3$·0.5Et_2O. Is there a similarity to the hydroxyazo/ketohydrazone tautomerisation in *ortho*-hydroxyazobenzenes?, 164
The crystal structure of 5-hydro- and 7-hydro-*s*-indacenide-Rh(COD). A comparison with similar complexes, 267
Crystal structures
From molecules to aggregates: crystal structures of molybdenum binuclear complexes, 34
Pentacoordinated diolefinic rhodium(I) organocomplexes with α-diimine ligands. Crystal structures of [Rh(Nbd)(LL)-(PPh_3)]ClO_4 (Nbd = norbornadiene; LL = Bdh, biacetylidihydrazone; Pvdh, pyruvaldihydrazone; Bda, biacetyldianil), 311
Synthesis, structure, and reactivity of ruthenium(II) complexes with a hemilabile tetradentate etherdiphosphine ligand, 220
Cu
Synthesis of γ-lactones and unsaturated bis γ-lactones via Cu–Fe-mediated reductive cyclization of di- and tri-α-halogenated carboxylic esters, 153
Cyclic voltammetry
Synthesis and solvatochromism of some dipolar aryl-phosphonium and -phosphine oxide systems, 293
Cyclometalation
Complexes *cis*-[$PdCl_2$(OSMeR)$_2$] (R = Me, Ph, and C_6H_4Me-4) in attempted asymmetric cyclometalation of dimethylaminomethylferrocene, 51
Cyclometallation
Cyclometallated complexes of ruthenium and osmium containing the *o*-$C_6H_4PPh_2$ ligand, 299
Cyclometallated platinum complexes with thienyl imines. X-ray crystal structure of [PtMe{3-$(PhCH_2NCH)C_4H_2S$}PPh_3], 22
Cyclopentadienyl
Ligating similarities between the novel five-electron-donor η^4-$P_3C_2Bu^t_2$(R)H ring system, (R = $CH(SiMe_3)_2$) and the η^5-cyclopentadienyl ring. Syntheses, crystal and molecular structures of [$Co_2(CO)_5$(μ-$P_3C_2Bu^t_2CH(SiMe_3)_2$)] and [$Co(CO)_2$(η^4-$P_3C_2Bu^t_2$H$(CH(SiMe_3)_2$], 335
DFT calculations
From molecules to aggregates: crystal structures of molybdenum binuclear complexes, 34
Digermabicyclooctadiene
Photolysis of 7,8-digermabicyclo[2.2.2]octadiene. The investigation of the elementary stages by means of ^{1}H CIDNP and laser pulse photolysis, 324
Diimine complexes
Pentacoordinated diolefinic rhodium(I) organocomplexes with α-diimine ligands. Crystal structures of [Rh(Nbd)(LL)-(PPh_3)]ClO_4 (Nbd = norbornadiene; LL = Bdh, biacetylidihydrazone; Pvdh, pyruvaldihydrazone; Bda, biacetyldianil), 311
Dimethylgermylene
Photolysis of 7,8-digermabicyclo[2.2.2]octadiene. The investigation of the elementary stages by means of ^{1}H CIDNP and laser pulse photolysis, 324
Dinuclear
Regiospecificity in reactions of alkynes and phosphines with the phosphido-bridged iron–cobalt complex [$(OC)_4$Fe(μ-PPh_2)Co$(CO)_3$], 271

Diphosphines
Asymmetric catalytic hydroformylation of styrene: stereoselective ferrocenylethyldiphosphine rhodium catalysts, 138

Electrochemical properties
para-Substituted diphenylborylated organocobaloximes: effects of substituents on conformation and redox properties, 114
Electrochemistry
Cyclometallated platinum complexes with thienyl imines. X-ray crystal structure of [PtMe{3-($PhCH_2NCH$)C_4H_2S}PPh_3], 22
Synthesis, electrochemistry and electronic spectra of tetranuclear bis(η^2-alkynyl) transition-metal complexes. The molecular structure of [(η^5-$C_5H_4SiMe_3$)$_2$Ti(C≡CFc)$_2$]$CuBr$, 93
Enol ester
Synthesis and molecular structure of [RuCl{C(=$CHPh$)OC(=O)-CH_2CH_3}$(CO)(PPh_3)_2$]: a real intermediate in ruthenium complex-catalyzed selective synthesis of a (*Z*)-enol ester, 69
Epoxidation
Syntheses of monomeric iron and manganese complexes using bulky tripodal ligands: catalytic alkene epoxidations, 57
Equilibria
Synthesis, characterization and X-ray structural determination of palladium(0)–olefin complexes containing pyridin-thioethers as ancillary ligands. Equilibria and rates of olefin and ligand exchange, 1
Ethylene/CO copolymerization
Cationic palladium complexes with ketophosphine and phosphino enolate ligands and their reactivity towards C–C coupling reactions. Crystal structures of [PdMe{Ph_2PCH_2C(O)Ph}-(PCy_3)(PF_6) and [Pd{Ph_2PCH···C···O)Ph}$(SMe_2)_2$](PF_6), 43
Ethylene dimerization
Cationic palladium complexes with ketophosphine and phosphino enolate ligands and their reactivity towards C–C coupling reactions. Crystal structures of [PdMe{Ph_2PCH_2C(O)Ph}-(PCy_3)](PF_6) and [Pd{Ph_2PCH···C(···O)Ph}$(SMe_2)_2$](PF_6), 43

Fe
Synthesis of γ-lactones and unsaturated bis γ-lactones via Cu–Fe-mediated reductive cyclization of di- and tri-α-halogenated carboxylic esters, 153
Ferrocene
Complexes *cis*-[$PdCl_2(OSMeR)_2$] (R = Me, Ph, and C_6H_4Me-4) in attempted asymmetric cyclometalation of dimethylaminomethylferrocene, 51
Ferrocenium
Selective oxidants for organometallic compounds containing a stabilising anion of highly reactive cations: (3,5(CF_3)$_2$-C_6H_3)$_4$B$^-$)Cp_2Fe^+ and (3,5(CF_3)$_2C_6H_3$)$_4$B$^-$)$Cp^*_2Fe^+$, 126
[1]Ferrocenophane
Optically active transition-metal complexes: Part 124. Chiral 1-phospha[1]ferrocenophanes and 1,12-diphospha[1.1]ferrocenophanes — synthesis, characterization and ring-opening polymerization, 211
[1.1]Ferrocenophane
Optically active transition-metal complexes: Part 124. Chiral 1-phospha[1]ferrocenophanes and 1,12-diphospha[1.1]ferrocenophanes — synthesis, characterization and ring-opening polymerization, 211
Ferrocenyl
Synthesis and solvatochromism of some dipolar aryl-phosphonium and -phosphine oxide systems, 293
Synthesis, electrochemistry and electronic spectra of tetranuclear bis(η^2-alkynyl) transition-metal complexes. The molecular structure of [(η^5-$C_5H_4SiMe_3$)$_2$Ti(C≡CFc)$_2$]$CuBr$, 93
Ferrocenyl derivatives
Oxidation potential of benzylferrocenes and related compounds: effects of the *ortho*-methoxy substituent in the phenyl group, 246
Ferrocenylphosphines
Asymmetric catalytic hydroformylation of styrene: stereoselective ferrocenylethyldiphosphine rhodium catalysts, 138

Gallium phosphide
Synthesis and characterization of single-source precursors to nanocrystalline GaP, GaP_xAs_{1-x}, and GaP_xSb_{1-x}. X-ray crystal structures of [$Et_2GaP(SiMe_3)_2$]$_2$, $(Me_3Si)_2P$[μ-$GaEt_2$]$_2As(SiMe_3)_2$, and $(Me_3Si)_2P$[μ-$GaEt_2$]$_2Sb(SiMe_3)_2$, 191
Gallium phosphorus clusters
Synthesis and characterization of single-source precursors to nanocrystalline GaP, GaP_xAs_{1-x}, and GaP_xSb_{1-x}. X-ray crystal structures of [$Et_2GaP(SiMe_3)_2$]$_2$, $(Me_3Si)_2P$[μ-$GaEt_2$]$_2As(SiMe_3)_2$, and $(Me_3Si)_2P$[μ-$GaEt_2$]$_2Sb(SiMe_3)_2$, 191
Germanium
Photolysis of 7,8-digermabicyclo[2.2.2]octadiene. The investigation of the elementary stages by means of ^{1}H CIDNP and laser pulse photolysis, 324

Halogenation
Tetrahalogenomethanes: simple reagents for the synthesis of monohalogenated and mixed dihalogenated aromatic heterocycles via metal–halogen exchange from lithium compounds, 233
High purity
Transportation in MOCVD of traces of oxygenated aluminum and gallium organometallics, 133
Hydroesterification
On the mechanism of hydroesterification of styrene using an in situ-formed cationic palladium complex, 100
Hydroformylation
Asymmetric catalytic hydroformylation of styrene: stereoselective ferrocenylethyldiphosphine rhodium catalysts, 138
Rhodium-catalyzed hydroformylation of 1-allylpyrrole as an unexpected way to 5,6-dihydroindolizine synthesis, 320
Hyperconjugative effects
The crystal structure of 5-hydro- and 7-hydro-*s*-indacenide-Rh(COD). A comparison with similar complexes, 267

Indacenide complexes
The crystal structure of 5-hydro- and 7-hydro-*s*-indacenide-Rh(COD). A comparison with similar complexes, 267
Indolizine
Rhodium-catalyzed hydroformylation of 1-allylpyrrole as an unexpected way to 5,6-dihydroindolizine synthesis, 320
Inert anion
Selective oxidants for organometallic compounds containing a stabilising anion of highly reactive cations: (3,5(CF_3)$_2$-C_6H_3)$_4$B$^-$)Cp_2Fe^+ and (3,5(CF_3)$_2C_6H_3$)$_4$B$^-$)$Cp^*_2Fe^+$, 126
Inner-sphere electron transfer
The ring expansion of a dimethyl-substituted vinylcyclobutene derivative by metal complexes that can undergo an inner-sphere electron transfer, 147
Iridium
Rh and Ir complexes containing multidentate, C_2-symmetry ligands. Structural and catalytic properties in asymmetric hydrogenation, 284

Iron
Reaction of $[Et_3NH][(\mu\text{-}RE)(\mu\text{-}CO)Fe_2(CO)_6]$ (E = S, Se) with azides. Synthesis of $(\mu\text{-}RE)(\mu\text{-}p\text{-}R^1C_6H_4N_3H)Fe_2(CO)_6$ and crystal structure of $(\mu\text{-}Bu^tS)(\mu\text{-}PhN_3H)Fe_2(CO)_6$, 87
Reactions of $[(\mu\text{-}RS)(\mu\text{-}S)\{Fe_2(CO)_6\}_2(\mu_4\text{-}S)]^-$ with acid chlorides and diacid chlorides. Crystal structure of $(\mu\text{-}PhCH_2S)[\mu\text{-}CH_2{=}C(Me)COS][Fe_2(CO)_6]_2(\mu_4\text{-}S)$, 108
Regiospecificity in reactions of alkynes and phosphines with the phosphido-bridged iron–cobalt complex $[(OC)_4Fe(\mu\text{-}PPh_2)Co(CO)_3]$, 271
Syntheses of monomeric iron and manganese complexes using bulky tripodal ligands: catalytic alkene epoxidations, 57

Ketophosphine ligands
Cationic palladium complexes with ketophosphine and phosphino enolate ligands and their reactivity towards C–C coupling reactions. Crystal structures of $[PdMe\{Ph_2PCH_2C(O)Ph\}(PCy_3)](PF_6)$ and $[Pd\{Ph_2PCH{\cdots}C{\cdots}O)Ph\}(SMe_2)_2](PF_6)$, 43

Lanthanocene
Anionic dichlorolanthanocene compounds. X-ray crystal structures of $[\{(Me_3Si)_2C_5H_3\}_2LnCl_2][Li(THF)_4]$ (Ln = Er, Yb) and $\{(Me_3Si)_2C_5H_3\}_2Yb(\mu\text{-}Cl)_2Li(THF)_2$, 160
Laser flash photolysis
Photolysis of 7,8-digermabicyclo[2.2.2]octadiene. The investigation of the elementary stages by means of ^1H CIDNP and laser pulse photolysis, 324
Liquid crystals
Chiral cyclopalladated liquid crystals from amino acids, 305
Lithium compounds
Tetrahalogenomethanes: simple reagents for the synthesis of monohalogenated and mixed dihalogenated aromatic heterocycles via metal–halogen exchange from lithium compounds, 233

Magnesium
Mixed reagent (aminosilyl)lithium/*i*-PrMgBr for the synthesis of functionalized oligosilanes, 259
Manganese
Syntheses of monomeric iron and manganese complexes using bulky tripodal ligands: catalytic alkene epoxidations, 57
Mechanism
On the mechanism of hydroesterification of styrene using an in situ-formed cationic palladium complex, 100
Mesogenic
Chiral cyclopalladated liquid crystals from amino acids, 305
Metal–halogen exchange
Tetrahalogenomethanes: simple reagents for the synthesis of monohalogenated and mixed dihalogenated aromatic heterocycles via metal–halogen exchange from lithium compounds, 233
Metallocene
Anionic dichlorolanthanocene compounds. X-ray crystal structures of $[\{(Me_3Si)_2C_5H_3\}_2LnCl_2][Li(THF)_4]$ (Ln = Er, Yb) and $\{(Me_3Si)_2C_5H_3\}_2Yb(\mu\text{-}Cl)_2Li(THF)_2$, 160
Metathesis polymerisation
Studies on the nature of active species in $W(CO)_6/CCl_4/h\nu$ system as applied to metathesis polymerisation reactions, 16
MOCVD
Transportation in MOCVD of traces of oxygenated aluminum and gallium organometallics, 133
Molybdenum
From molecules to aggregates: crystal structures of molybdenum binuclear complexes, 34

Multidentate ligands
Rh and Ir complexes containing multidentate, C_2-symmetry ligands. Structural and catalytic properties in asymmetric hydrogenation, 284

Nanocrystalline
Synthesis and characterization of single-source precursors to nanocrystalline GaP, GaP_xAs_{1-x}, and GaP_xSb_{1-x}. X-ray crystal structures of $[Et_2GaP(SiMe_3)_2]_2$, $(Me_3Si)_2P[\mu\text{-}GaEt_2]_2As(SiMe_3)_2$, and $(Me_3Si)_2P[\mu\text{-}GaEt_2]_2Sb(SiMe_3)_2$, 191
NMR and ^{119}Sn Mössbauer spectra
Synthesis and structural characterisation of bis(trimethylsilyl)-amidotin(II) triflate $[\{Sn(NR_2)(\mu\text{-}\eta^2\text{-}OTf)_2\}]_\infty$ (R = $SiMe_3$, ^-OTf = $^-OSO_2CF_3$), 142
Norbornene
Studies on the nature of active species in $W(CO)_6/CCl_4/h\nu$ system as applied to metathesis polymerisation reactions, 16

Oganoaluminum compounds
Transportation in MOCVD of traces of oxygenated aluminum and gallium organometallics, 133
Olefin and ligand exchange
Synthesis, characterization and X-ray structural determination of palladium(0)–olefin complexes containing pyridin-thioethers as ancillary ligands. Equilibria and rates of olefin and ligand exchange, 1
Oligosilanes
Mixed reagent (aminosilyl)lithium/*i*-PrMgBr for the synthesis of functionalized oligosilanes, 259
o-Methoxyphenyl
Oxidation potential of benzylferrocenes and related compounds: effects of the *ortho*-methoxy substituent in the phenyl group, 246
Organocobaloximes
para-Substituted diphenylborylated organocobaloximes: effects of substituents on conformation and redox properties, 114
Organogallium compounds
Transportation in MOCVD of traces of oxygenated aluminum and gallium organometallics, 133
Organolanthanide
Anionic dichlorolanthanocene compounds. X-ray crystal structures of $[\{(Me_3Si)_2C_5H_3\}_2LnCl_2][Li(THF)_4]$ (Ln = Er, Yb) and $\{(Me_3Si)_2C_5H_3\}_2Yb(\mu\text{-}Cl)_2Li(THF)_2$, 160
Osmium
Cyclometallated complexes of ruthenium and osmium containing the $o\text{-}C_6H_4PPh_2$ ligand, 299
Oxidants
Selective oxidants for organometallic compounds containing a stabilising anion of highly reactive cations: $(3,5(CF_3)_2\text{-}C_6H_3)_4B^-)Cp_2Fe^+$ and $(3.5(CF_3)_2C_6H_3)_4B^-)Cp^*_2Fe^+$, 126
Oxidation
Functionalisation of tetraalkylsilanes derived from C–H activation; towards annulations of diterpenoids, 172
Syntheses of monomeric iron and manganese complexes using bulky tripodal ligands: catalytic alkene epoxidations, 57
Oxidation potential
Oxidation potential of benzylferrocenes and related compounds: effects of the *ortho*-methoxy substituent in the phenyl group, 246
Oxidative addition
Cyclometallated platinum complexes with thienyl imines. X-ray crystal structure of $[PtMe\{3\text{-}(PhCH_2NCH)C_4H_2S\}PPh_3]$, 22
Reactivity of $[Pd_3(\mu\text{-}OAc)_3(\mu,\eta^3\text{-}MeSCHCO_2Et\text{-}C,S)_3]$ in the presence of triphenylphosphine: a model of the early steps of the Pd/PR_3-catalysed Heck reaction, 201

β-Oxothioether ligands
Reactivity of $[Pd_3(\mu\text{-}OAc)_3(\mu,\eta^2\text{-}MeSCHCO_2Et\text{-}C,S)_3]$ in the presence of triphenylphosphine: a model of the early steps of the Pd/PR_3-catalysed Heck reaction, 201

Palladium
Chiral cyclopalladated liquid crystals from amino acids, 305
Complexes *cis*-$[PdCl_2(OSMeR)_2]$ (R = Me, Ph, and C_6H_4Me-4) in attempted asymmetric cyclometalation of dimethylaminomethylferrocene, 51
On the mechanism of hydroesterification of styrene using an in situ-formed cationic palladium complex, 100
Palladium complex
Reactivity of $[Pd_3(\mu\text{-}OAc)_3(\mu,\eta^2\text{-}MeSCHCO_2Et\text{-}C,S)_3]$ in the presence of triphenylphosphine: a model of the early steps of the Pd/PR_3-catalysed Heck reaction, 201
Palladium–olefin complexes
Synthesis, characterization and X-ray structural determination of palladium(0)–olefin complexes containing pyridinthioethers as ancillary ligands. Equilibria and rates of olefin and ligand exchange, 1
Pentacoordinated complexes
Pentacoordinated diolefinic rhodium(I) organocomplexes with α-diimine ligands. Crystal structures of $[Rh(Nbd)(LL)(PPh_3)]ClO_4$ (Nbd = norbornadiene; LL = Bdh, biacetylidihydrazone; Pvdh, pyruvaldihydrazone; Bda, biacetyldianil), 311
Phenylacetylene
Studies on the nature of active species in $W(CO)_6/CCl_4/h\nu$ system as applied to metathesis polymerisation reactions, 16
Phosphido
Regiospecificity in reactions of alkynes and phosphines with the phosphido-bridged iron–cobalt complex $[(OC)_4Fe(\mu\text{-}PPh_2)Co(CO)_3]$, 271
Phosphine
Regiospecificity in reactions of alkynes and phosphines with the phosphido-bridged iron–cobalt complex $[(OC)_4Fe(\mu\text{-}PPh_2)Co(CO)_3]$, 271
Phosphine enolate ligands
Cationic palladium complexes with ketophosphine and phosphino enolate ligands and their reactivity towards C–C coupling reactions. Crystal structures of $[PdMe\{Ph_2PCH_2C(O)Ph\}(PCy_3)](PF_6)$ and $[Pd\{Ph_2PCH{\cdots}C(\cdots O)Ph\}(SMe_2)_2](PF_6)$, 43
Phosphine oxide
Synthesis and solvatochromism of some dipolar aryl-phosphonium and -phosphine oxide systems, 293
Phosphines
Reactivity of $[Pd_3(\mu\text{-}OAc)_3(\mu,\eta^2\text{-}MeSCHCO_2Et\text{-}C,S)_3]$ in the presence of triphenylphosphine: a model of the early steps of the Pd/PR_3-catalysed Heck reaction, 201
Phosphonium salt
Synthesis and solvatochromism of some dipolar aryl-phosphonium and -phosphine oxide systems, 293
Phosphorus
Optically active transition-metal complexes: Part 124. Chiral 1-phospha[1]ferrocenophanes and 1,12-diphospha[1.1]ferrocenophanes — synthesis, characterization and ring-opening polymerization, 211
Photolysis
Studies on the nature of active species in $W(CO)_6/CCl_4/h\nu$ system as applied to metathesis polymerisation reactions, 16
Platinum
Cyclometallated platinum complexes with thienyl imines. X-ray crystal structure of $[PtMe\{3\text{-}(PhCH_2NCH)C_4H_2S\}PPh_3]$, 22

(Porphinato)iron(III)
Restudies of the spin state in (isothiocyanato)(pyridine)-(porphinato)iron(III) hemipyridine complex. A spin-crossover complex with two magnetically distinct sites, 253
Porphyrin
Restudies of the spin state in (isothiocyanato)(pyridine)-(porphinato)iron(III) hemipyridine complex. A spin-crossover complex with two magnetically distinct sites, 253
p-Substituted diphenylborinic groups
para-Substituted diphenylborylated organocobaloximes: effects of substituents on conformation and redox properties, 114
Pyridine
Synthesis, structures and luminescent properties of metal complexes containing 4-[2-(9-anthryl)vinyl]pyridine, 237

Reaction
Reactions of $[(\mu\text{-}RS)(\mu\text{-}S)\{Fe_2(CO)_6\}_2(\mu_4\text{-}S)]^-$ with acid chlorides and diacid chlorides. Crystal structure of $(\mu\text{-}PhCH_2S)(\mu\text{-}CH_2{=}C(Me)COS)[Fe_2(CO)_6]_2(\mu_4\text{-}S)$, 108
Rearrangement reaction
The ring expansion of a dimethyl-substituted vinylcyclobutene derivative by metal complexes that can undergo an inner-sphere electron transfer, 147
Redox processes
Zur Umsetzung von Bis(alkinyl)-Titanocenen mit Übergangsmetall-Verbindungen von Cu(II), Pd(II), Pt(II), Fe(III) und Au(III), 226
Reduction
On the in situ trimethylsilylation of zinc acetylides, 341
Reductive cyclization
Synthesis of γ-lactones and unsaturated bis γ-lactones via Cu–Fe-mediated reductive cyclization of di- and tri-α-halogenated carboxylic esters, 153
Reductive elimination
Reactivity of $[Pd_3(\mu\text{-}OAc)_3(\mu,\eta^2\text{-}MeSCHCO_2Et\text{-}C,S)_3]$ in the presence of triphenylphosphine: a model of the early steps of the Pd/PR_3-catalysed Heck reaction, 201
Rhodium
Asymmetric catalytic hydroformylation of styrene: stereoselective ferrocenylethyldiphosphine rhodium catalysts, 138
Preparation and catalytic hydrogenation properties of some rhodium and ruthenium complexes with chiral tridentate phosphine ligands (*S,S*)-$PhP(CH_2CHMeCH_2PPh_2)_2$ and (*S*)-$Ph_2PCH_2CH(PPh_2)CH_2CH_2PPh_2$), 330
Rh and Ir complexes containing multidentate, C_2-symmetry ligands. Structural and catalytic properties in asymmetric hydrogenation, 284
Rhodium-catalyzed hydroformylation of 1-allylpyrrole as an unexpected way to 5,6-dihydroindolizine synthesis, 320
Rhodium complexes
Pentacoordinated diolefinic rhodium(I) organocomplexes with α-diimine ligands. Crystal structures of $[Rh(Nbd)(LL)(PPh_3)]ClO_4$ (Nbd = norbornadiene; LL = Bdh, biacetylidihydrazone; Pvdh, pyruvaldihydrazone; Bda, biacetyldianil), 311
The crystal structure of 5-hydro- and 7-hydro-*s*-indacenide-Rh(COD). A comparison with similar complexes, 267
Ring expansion
The ring expansion of a dimethyl-substituted vinylcyclobutene derivative by metal complexes that can undergo an inner-sphere electron transfer, 147
Ring-opening polymerization (ROP)
Optically active transition-metal complexes: Part 124. Chiral 1-phospha[1]ferrocenophanes and 1,12-diphospha[1.1]ferrocenophanes — synthesis, characterization and ring-opening polymerization, 211

Ruthenium
Cyclometallated complexes of ruthenium and osmium containing the *o*-$C_6H_4PPh_2$ ligand, 299
Functionalised alkenylcarbene metal complexes (M = Ru, W, Cr) by activation of propargyl alcohol derivatives, 78
Ligating similarities between the novel five-electron-donor η^4-$P_3C_2Bu^t_2(R)H$ ring system, (R = $CH(SiMe_3)_2$) and the η^5-cyclopentadienyl ring. Syntheses, crystal and molecular structures of $[Co_2(CO)_5(\mu\text{-}P_3C_2Bu^t_2CH(SiMe_3)_2)]$ and $[Co(CO)_2(\eta^4\text{-}P_3C_2Bu^t_2H(CH(SiMe_3)_2]$, 335
Preparation and catalytic hydrogenation properties of some rhodium and ruthenium complexes with chiral tridentate phosphine ligands (*S*,*S*)-$PhP(CH_2CHMeCH_2PPh_2)_2$ and (*S*)-$Ph_2PCH_2CH(PPh_2)CH_2CH_2PPh_2$), 330
Synthesis and characterisation of cyclometallated orthoazobenzene complexes of Ru(II): crystal and molecular structure of $[RuCl(CO)(\eta^2\text{-}C,N\text{-}C_6H_4N{=}NPh)(PPh_3)_2]\cdot 0.5CHCl_3\cdot 0.5Et_2O$. Is there a similarity to the hydroxyazo/ketohydrazone tautomerisation in *ortho*-hydroxyazobenzenes?, 164
Ruthenium catalysis
Functionalisation of tetraalkylsilanes derived from C–H activation; towards annulations of diterpenoids, 172
Ruthenium complexes
Synthesis and molecular structure of $[RuCl\{C(=CHPh)OC(=O)CH_2CH_3\}(CO)(PPh_3)_2]$: a real intermediate in ruthenium complex-catalyzed selective synthesis of a (*Z*)-enol ester, 69
Synthesis, structure, and reactivity of ruthenium(II) complexes with a hemilabile tetradentate etherdiphosphine ligand, 220

Schiff bases
Chiral cyclopalladated liquid crystals from amino acids, 305
Selective catalysis
Synthesis and molecular structure of $[RuCl\{C(=CHPh)OC(=O)CH_2CH_3\}(CO)(PPh_3)_2]$: a real intermediate in ruthenium complex-catalyzed selective synthesis of a (*Z*)-enol ester, 69
Selenium
Reaction of $[Et_3NH][(\mu\text{-}RE)(\mu\text{-}CO)Fe_2(CO)_6]$ (E = S, Se) with azides. Synthesis of $(\mu\text{-}RE)(\mu\text{-}p\text{-}R^1C_6H_4N_3H)Fe_2(CO)_6$ and crystal structure of $(\mu\text{-}Bu^tS)(\mu\text{-}PhN_3H)Fe_2(CO)_6$, 87
Silver(I)
Synthesis, electrochemistry and electronic spectra of tetranuclear bis(η^2-alkynyl) transition-metal complexes. The molecular structure of $[(\eta^5\text{-}C_5H_4SiMe_3)_2Ti(C{\equiv}CFc)_2]CuBr$, 93
Silylation
On the in situ trimethylsilylation of zinc acetylides, 341
Solvatochromism
Synthesis and solvatochromism of some dipolar aryl-phosphonium and -phosphine oxide systems, 293
Spin-crossover
Restudies of the spin state in (isothiocyanato)(pyridine)-(porphinato)iron(III) hemipyridine complex. A spin-crossover complex with two magnetically distinct sites, 253
Stereoisomers
Mixed reagent (aminosilyl)lithium/*i*-PrMgBr for the synthesis of functionalized oligosilanes, 259
Structure
Anionic dichlorolanthanocene compounds. X-ray crystal structures of $[\{(Me_3Si)_2C_5H_3\}_2LnCl_2][Li(THF)_4]$ (Ln = Er, Yb) and $\{(Me_3Si)_2C_5H_3\}_2Yb(\mu\text{-}Cl)_2Li(THF)_2$, 160
Reaction of $[Et_3NH][(\mu\text{-}RE)(\mu\text{-}CO)Fe_2(CO)_6]$ (E = S, Se) with azides. Synthesis of $(\mu\text{-}RE)(\mu\text{-}p\text{-}R^1C_6H_4N_3H)Fe_2(CO)_6$ and crystal structure of $(\mu\text{-}Bu^tS)(\mu\text{-}PhN_3H)Fe_2(CO)_6$, 87
Styrene
On the mechanism of hydroesterification of styrene using an in situ-formed cationic palladium complex, 100
Sulfoxide
Complexes *cis*-$[PdCl_2(OSMeR)_2]$ (R = Me, Ph, and C_6H_4Me-4) in attempted asymmetric cyclometalation of dimethylaminomethylferrocene, 51
Sulfur
Reaction of $[Et_3NH][(\mu\text{-}RE)(\mu\text{-}CO)Fe_2(CO)_6]$ (E = S, Se) with azides. Synthesis of $(\mu\text{-}RE)(\mu\text{-}p\text{-}R^1C_6H_4N_3H)Fe_2(CO)_6$ and crystal structure of $(\mu\text{-}Bu^tS)(\mu\text{-}PhN_3H)Fe_2(CO)_6$, 87
Reactions of $[(\mu\text{-}RS)(\mu\text{-}S)\{Fe_2(CO)_6\}_2(\mu_4\text{-}S)]^-$ with acid chlorides and diacid chlorides. Crystal structure of $(\mu\text{-}PhCH_2S)(\mu\text{-}CH_2{=}C(Me)COS][Fe_2(CO)_6]_2(\mu_4\text{-}S)$, 108
Synthesis
Reactions of $[(\mu\text{-}RS)(\mu\text{-}S)\{Fe_2(CO)_6\}_2(\mu_4\text{-}S)]^-$ with acid chlorides and diacid chlorides. Crystal structure of $(\mu\text{-}PhCH_2S)(\mu\text{-}CH_2{=}C(Me)COS][Fe_2(CO)_6]_2(\mu_4\text{-}S)$, 108
Transportation in MOCVD of traces of oxygenated aluminum and gallium organometallics, 133

Tautomerisation
Synthesis and characterisation of cyclometallated orthoazobenzene complexes of Ru(II): crystal and molecular structure of $[RuCl(CO)(\eta^2\text{-}C,N\text{-}C_6H_4N{=}NPh)(PPh_3)_2]\cdot 0.5CHCl_3\cdot 0.5Et_2O$. Is there a similarity to the hydroxyazo/ketohydrazone tautomerisation in *ortho*-hydroxyazobenzenes?, 164
Tetraalkylsilane
Functionalisation of tetraalkylsilanes derived from C–H activation; towards annulations of diterpenoids, 172
Tetrabromomethane
Tetrahalogenomethanes: simple reagents for the synthesis of monohalogenated and mixed dihalogenated aromatic heterocycles via metal–halogen exchange from lithium compounds, 233
Tetrachloromethane
Tetrahalogenomethanes: simple reagents for the synthesis of monohalogenated and mixed dihalogenated aromatic heterocycles via metal–halogen exchange from lithium compounds, 233
Tetradentate ether–phosphine ligands
Synthesis, structure, and reactivity of ruthenium(II) complexes with a hemilabile tetradentate etherdiphosphine ligand, 220
Tetramethyldigermene
Photolysis of 7,8-digermabicyclo[2.2.2]octadiene. The investigation of the elementary stages by means of ^1H CIDNP and laser pulse photolysis, 324
Thienylimines
Cyclometallated platinum complexes with thienyl imines. X-ray crystal structure of $[PtMe\{3\text{-}(PhCH_2NCH)C_4H_2S\}PPh_3]$, 22
Thioethers
Synthesis, characterization and X-ray structural determination of palladium(0)–olefin complexes containing pyridinthioethers as ancillary ligands. Equilibria and rates of olefin and ligand exchange, 1
Tin
Synthesis and structural characterisation of bis(trimethylsilyl)-amidotin(II) triflate $[\{Sn(NR_2)(\mu\text{-}\eta^2\text{-}\overline{OTf})_2\}]_\infty$ (R = $SiMe_3$, $^-OTf = {}^-OSO_2CF_3$), 142
Titanocene
Synthesis, electrochemistry and electronic spectra of tetranuclear bis(η^2-alkynyl) transition-metal complexes. The molecular structure of $[(\eta^5\text{-}C_5H_4SiMe_3)_2Ti(C{\equiv}CFc)_2]CuBr$, 93
Zur Umsetzung von Bis(alkinyl)-Titanocenen mit Übergangsmetall-Verbindungen von Cu(II), Pd(II), Pt(II), Fe(III) und Au(III), 226

Transition metal
Synthesis, structures and luminescent properties of metal complexes containing 4-[2-(9-anthryl)vinyl]pyridine, 237
Transition metal halides
Zur Umsetzung von Bis(alkinyl)-Titanocenen mit Übergangsmetall-Verbindungen von Cu(II), Pd(II), Pt(II), Fe(III) und Au(III), 226
Triazenido ligand
Reaction of $[Et_3NH][(\mu\text{-}RE)(\mu\text{-}CO)Fe_2(CO)_6]$ (E = S, Se) with azides. Synthesis of $(\mu\text{-}RE)(\mu\text{-}p\text{-}R^1C_6H_4N_3H)Fe_2(CO)_6$ and crystal structure of $(\mu\text{-}Bu^tS)(\mu\text{-}PhN_3H)Fe_2(CO)_6$, 87
Trichlorostannate
Pentacoordinated diolefinic rhodium(I) organocomplexes with α-diimine ligands. Crystal structures of $[Rh(Nbd)(LL)(PPh_3)]ClO_4$ (Nbd = norbornadiene; LL = Bdh, biacetylidihydrazone; Pvdh, pyruvaldihydrazone; Bda, biacetyldianil), 311
Triflate
Synthesis and structural characterisation of bis(trimethylsilyl)-amidotin(II) triflate $[\{Sn(NR_2)(\mu\text{-}\eta^2\text{-}\overbrace{OTf)_2}\}]_\infty$ (R = $SiMe_3$, $^-OTf = {}^-OSO_2CF_3$), 142
Trimethylacetylenes
On the in situ trimethylsilylation of zinc acetylides, 341
Triphosphole
Ligating similarities between the novel five electron donor η^4-$P_3C_2Bu^t_2(R)H$ ring system, (R = $CH(SiMe_3)_2$) and the η^5-cyclopentadienyl ring. Syntheses, crystal and molecular structures of $[Co_2(CO)_5(\mu\text{-}P_3C_2Bu^t_2CH(SiMe_3)_2)]$ and $[Co(CO)_2(\eta^4\text{-}P_3C_2Bu^t_2H(CH(SiMe_3)_2]$, 335
Tungsten
Functionalised alkenylcarbene metal complexes (M = Ru, W, Cr) by activation of propargyl alcohol derivatives, 78
UV–vis
Synthesis, electrochemistry and electronic spectra of tetranuclear bis(η^2-alkynyl) transition-metal complexes. The molecular structure of $[(\eta^5\text{-}C_5H_4SiMe_3)_2Ti(C{\equiv}CFc)_2]CuBr$, 93
$W(CO)_6$
Studies on the nature of active species in $W(CO)_6/CCl_4/h\nu$ system as applied to metathesis polymerisation reactions, 16
X-ray
Synthesis, electrochemistry and electronic spectra of tetranuclear bis(η^2-alkynyl) transition-metal complexes. The molecular structure of $[(\eta^5\text{-}C_5H_4SiMe_3)_2Ti(C{\equiv}CFc)_2]CuBr$, 93
X-ray crystal structure
Oxidation potential of benzylferrocenes and related compounds: effects of the *ortho*-methoxy substituent in the phenyl group, 246
X-ray structure
Synthesis and molecular structure of $[RuCl\{C(=CHPh)OC(=O)CH_2CH_3\}(CO)(PPh_3)_2]$: a real intermediate in ruthenium complex-catalyzed selective synthesis of a (*Z*)-enol ester, 69
X-ray structures
para-Substituted diphenylborylated organocobaloximes: effects of substituents on conformation and redox properties, 114
Zinc
Synthesis, structures and luminescent properties of metal complexes containing 4-[2-(9-anthryl)vinyl]pyridine, 237
Zinc powder
On the in situ trimethylsilylation of zinc acetylides, 341